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Notes ID: 3924A188B64050FF852577DD0067178A

From: "Dragos, Paul M" <dragosp@BATTELLE.ORG>

To: "Leitch, Robert A NAE" <Robert.A.Leitch@usace.army.mil>; Dave Dickerson/R1/USEPA/US@EPA; "Mitkevicius, K C NAE" <K.C.Mitkevicius@usace.army.mil>; "Mackay, Joseph B NAE" <Joseph.B.Mackay@usace.army.mil>; "L'Heureux, Paul G NAE" <Paul.G.L'Heureux@usace.army.mil>; ElaineT Stanley/R1/USEPA/US@EPA

Copy To: "Dahlen, Deirdre T" <DahlenD@BATTELLE.ORG>; "Boyle, Jeanine" <boylej@BATTELLE.ORG>

Delivered Date: 05/22/2009 09:31 AM EDT

Subject: RE: Preliminary Plume Tracking Results

Bob:

1) The acoustic profiler divides the water column into vertical bins for data collection and processing. In this case each bin was 0.33 m thick, so bin number 30 is 10 meters deep.

2) Good question. The figures are just direct dumps of the collected data and have not been 'flipped' to account for whether the boat was going E to W or W to E (not geo-referenced).

3) Well it can be done (the information is there), but its not going to be cost effective because the ADCP is just not designed to back out the change in bottom elevation. The software to do the calculation isn't available. We'd also need concurrent data from a nearby tide gage.

We'll dump the other two days if you like.

Paul

-----Original Message-----
From: Leitch, Robert A NAE [mailto:Robert.A.Leitch@usace.army.mil]
Sent: Friday, May 22, 2009 7:31 AM
To: Dragos, Paul M; dickerson.dave@epa.gov; Mitkevicius, K C NAE; Mackay, Joseph B NAE; L'Heureux, Paul G NAE; stanley.elainet@epa.gov
Cc: Dahlen, Deirdre T; Boyle, Jeanine
Subject: RE: Preliminary Plume Tracking Results

Tx, Paul!

Couple questions.....

1) What does the Bin no. mean?

2) 4 minutes after dumping, the higher turbidity in the water column was on the right side, then 13 minute after dump picture, there is much more turbidity to the left of the CAD Call. Can we attribute this to tide, scow dumping characteristics, different material on one side of the scow, etc?

3) Can we compare bottom contour in the background turbidity graph to that in the 60 minute after dump graph to get a sense as to the increase in bottom elevation due to material dumped?

Tx, Bob

-----Original Message-----
From: Dragos, Paul M [mailto:dragosp@BATTELLE.ORG]
Sent: Thursday, May 21, 2009 5:37 PM
To: Leitch, Robert A NAE; Dave Dickerson (dickerson.dave@epa.gov); Mitkevicius, K C NAE; Mackay, Joseph B NAE; L'Heureux, Paul G NAE; stanley.elainet@epa.gov
Cc: Dahlen, Deirdre T; Boyle, Jeanine
Subject: Preliminary Plume Tracking Results

Attached are preliminary turbidity results measured by ADCP for the disposal event 4/14/2009. Shown is the plume observed inside the CAD cell. The turbidity is uncalibrated.

Paul

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